

WO 2004/011594

1

## SEQUENCE LISTING

&lt;110&gt; BIOCORTECH

<120> Novel method for analyzing nucleic acid and use  
thereof for evaluating the degree of mRNA editing,  
in particular that of the serotonin 5-HT<sub>2C</sub> receptor

&lt;130&gt; D20534

&lt;150&gt; FR 02/09 524

&lt;151&gt; 2002-07-26

&lt;160&gt; 37

&lt;170&gt; PatentIn Ver. 2.1

&lt;210&gt; 1

&lt;211&gt; 17

&lt;212&gt; DNA

&lt;213&gt; Artificial sequence

&lt;220&gt;

<223> Artificial sequence description: DNA derived  
from the mRNA encoding the human 5-HT<sub>2C</sub>  
receptor

&lt;400&gt; 1

caatacgtaa tcctatt

17

&lt;210&gt; 2

&lt;211&gt; 17

&lt;212&gt; DNA

&lt;213&gt; Artificial sequence

&lt;220&gt;

<223> Artificial sequence description: DNA derived  
from the mRNA encoding the human 5-HT<sub>2C</sub>  
receptor

&lt;220&gt;

&lt;221&gt; modified\_base

&lt;222&gt; (3)

&lt;223&gt; n= i

&lt;400&gt; 2

cantacgtaa tcctatt

17

&lt;210&gt; 3

&lt;211&gt; 17

&lt;212&gt; DNA

&lt;213&gt; Artificial sequence

&lt;220&gt;

<223> Artificial sequence description: DNA derived  
from the mRNA encoding the human 5-HT<sub>2C</sub>  
receptor

<220>  
 <221> modified\_base  
 <222> (5)  
 <223> n= i

<400> 3

caatncgtaa tcctatt

17

<210> 4  
 <211> 17  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Artificial sequence description: DNA derived  
 from the mRNA encoding the human 5-HT<sub>2c</sub>  
 receptor

<220>  
 <221> modified\_base  
 <222> (10)  
 <223> n= i

<400> 4

caatacgtan tcctatt

17

<210> 5  
 <211> 17  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Artificial sequence description: DNA derived  
 from the mRNA encoding the human 5-HT<sub>2c</sub>  
 receptor

<220>  
 <221> modified\_base  
 <222> (15)  
 <223> n= i

<400> 5

caatacgtaa tcctntt

17

<210> 6  
 <211> 17  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Artificial sequence description: DNA derived  
 from the mRNA encoding the human 5-HT<sub>2c</sub>  
 receptor

<220>  
 <221> modified\_base  
 <222> (9)

<223> n= i

<400> 6

caatacgtna tcctatt

17

<210> 7

<211> 17

<212> DNA

<213> Artificial sequence

<220>

<223> Artificial sequence description: DNA derived  
from the mRNA encoding the human 5-HT<sub>2c</sub>  
receptor

<220>

<221> modified\_base

<222> (3)

<223> n= i

<220>

<221> modified\_base

<222> (5)

<223> n= i

<400> 7

cantncgtaa tcctatt

17

<210> 8

<211> 17

<212> DNA

<213> Artificial sequence

<220>

<223> Artificial sequence description: DNA derived  
from the mRNA encoding the human 5-HT<sub>2c</sub>  
receptor

<220>

<221> modified\_base

<222> (3)

<223> n= i

<220>

<221> modified\_base

<222> (10)

<223> n= i

<400> 8

cantacgtan tcctatt

17

<210> 9

<211> 17

<212> DNA

<213> Artificial sequence

<220>

<223> Artificial sequence description: DNA derived

from the mRNA encoding the human 5-HT<sub>2c</sub>  
receptor

<220>  
<221> modified\_base  
<222> (3)  
<223> n= i

<220>  
<221> modified\_base  
<222> (15)  
<223> n= i

<400> 9  
cantacgtaa tcctntt

17

<210> 10  
<211> 17  
<212> DNA  
<213> Artificial sequence

<220>  
<223> Artificial sequence description: DNA derived  
from the mRNA encoding the human 5-HT<sub>2c</sub>  
receptor

<220>  
<221> modified\_base  
<222> (3)  
<223> n= i

<220>  
<221> modified\_base  
<222> (9)  
<223> n= i

<400> 10  
cantacgtna tcctatt

17

<210> 11  
<211> 17  
<212> DNA  
<213> Artificial sequence

<220>  
<223> Artificial sequence description: DNA derived  
from the mRNA encoding the human 5-HT<sub>2c</sub>  
receptor

<220>  
<221> modified\_base  
<222> (5)  
<223> n= i

<220>  
<221> modified\_base  
<222> (10)  
<223> n= i

<400> 11  
caatncgtan tcctatt

17

<210> 12  
<211> 17  
<212> DNA  
<213> Artificial sequence.

<220>  
<223> Artificial sequence description: DNA derived  
from the mRNA encoding the human 5-HT<sub>2c</sub>  
receptor

<220>  
<221> modified\_base  
<222> (5)  
<223> n= 1

<220>  
<221> modified\_base  
<222> (15)  
<223> n= 1

<400> 12  
caatncgtaa tcctntt

17

<210> 13  
<211> 17  
<212> DNA  
<213> Artificial sequence.

<220>  
<223> Artificial sequence description: DNA derived  
from the mRNA encoding the human 5-HT<sub>2c</sub>  
receptor

<220>  
<221> modified\_base  
<222> (5)  
<223> n= 1

<220>  
<221> modified\_base  
<222> (9)  
<223> n= 1

<400> 13  
caatncgtna tcctatt

17

<210> 14  
<211> 17  
<212> DNA  
<213> Artificial sequence.

<220>  
<223> Artificial sequence description: DNA derived  
from the mRNA encoding the human 5-HT<sub>2c</sub>

## receptor

<220>  
 <221> modified\_base  
 <222> (10)  
 <223> n= i

<220>  
 <221> modified\_base  
 <222> (15)  
 <223> n= i

<400> 14  
 caatacgtan tcctntt

17

<210> 15  
 <211> 17  
 <212> DNA  
 <213> Artificial sequence.

<220>  
 <223> Artificial sequence description: DNA derived  
 from the mRNA encoding the human 5-HT<sub>2c</sub>  
 receptor

<220>  
 <221> modified\_base  
 <222> (9)  
 <223> n= i

<220>  
 <221> modified\_base  
 <222> (10)  
 <223> n= i

<400> 15  
 caatacgtnn tcctatt

17

<210> 16  
 <211> 17  
 <212> DNA  
 <213> Artificial sequence.

<220>  
 <223> Artificial sequence description: DNA derived  
 from the mRNA encoding the human 5-HT<sub>2c</sub>  
 receptor

<220>  
 <221> modified\_base  
 <222> (9)  
 <223> n= i

<220>  
 <221> modified\_base  
 <222> (15)  
 <223> n= i

<400> 16

caatacgtna tcctntt

17

<210> 17  
 <211> 17  
 <212> DNA  
 <213> Artificial sequence  
 <220>  
 <223> Artificial sequence description: DNA derived  
 from the mRNA encoding the human 5-HT<sub>2c</sub>  
 receptor

<220>  
 <221> modified\_base  
 <222> (3)  
 <223> n= i

<220>  
 <221> modified\_base  
 <222> (5)  
 <223> n= i

<220>  
 <221> modified\_base  
 <222> (10)  
 <223> n= i

<400> 17  
 cantnctgtan tcctatt

17

<210> 18  
 <211> 17  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Artificial sequence description: DNA derived  
 from the mRNA encoding the human 5-HT<sub>2c</sub>  
 receptor

<220>  
 <221> modified\_base  
 <222> (3)  
 <223> n= i

<220>  
 <221> modified\_base  
 <222> (5)  
 <223> n= i

<220>  
 <221> modified\_base  
 <222> (15)  
 <223> n= i

<400> 18  
 cantnctgtaa tcctntt

17

<210> 19  
 <211> 17  
 <212> DNA  
 <213> Artificial sequence.

<220>  
 <223> Artificial sequence description: DNA derived  
 from the mRNA encoding the human 5-HT<sub>2c</sub>  
 receptor

<220>  
 <221> modified\_base  
 <222> (3)  
 <223> n= i

<220>  
 <221> modified\_base  
 <222> (5)  
 <223> n= i

<220>  
 <221> modified\_base  
 <222> (9)  
 <223> n= i

<400> 19  
 cantncgtna tcctatt

17

<210> 20  
 <211> 17  
 <212> DNA  
 <213> Artificial sequence.

<220>  
 <223> Artificial sequence description: DNA derived  
 from the mRNA encoding the human 5-HT<sub>2c</sub>  
 receptor

<220>  
 <221> modified\_base  
 <222> (3)  
 <223> n= i

<220>  
 <221> modified\_base  
 <222> (10)  
 <223> n= i

<220>  
 <221> modified\_base  
 <222> (15)  
 <223> n= i

<400> 20  
 cantacgtan tcctntt

17

<210> 21  
 <211> 17  
 <212> DNA



<213> Artificial sequence.

<220>

<223> Artificial sequence description: DNA derived  
from the mRNA encoding the human 5-HT<sub>2c</sub>  
receptor

<220>

<221> modified\_base

<222> (3)

<223> n= i

<220>

<221> modified\_base

<222> (9)

<223> n= i

<220>

<221> modified\_base

<222> (10)

<223> n= i

<400> 21

cantacgttnn tcctatt

17

<210> 22

<211> 17

<212> DNA

<213> Artificial sequence.

<220>

<223> Artificial sequence description: DNA derived  
from the mRNA encoding the human 5-HT<sub>2c</sub>  
receptor

<220>

<221> modified\_base

<222> (3)

<223> n= i

<220>

<221> modified\_base

<222> (9)

<223> n= i

<220>

<221> modified\_base

<222> (15)

<223> n= i

<400> 22

cantacgtna tcctntt

17

<210> 23

<211> 17

<212> DNA

<213> Artificial sequence.

<220>

<223> Artificial sequence description: DNA derived  
from the mRNA encoding the human 5-HT<sub>2c</sub>  
receptor

<220>  
<221> modified\_base  
<222> (5)  
<223> n= i

<220>  
<221> modified\_base  
<222> (10)  
<223> n= i

<220>  
<221> modified\_base  
<222> (15)  
<223> n= i

<400> 23  
caatncgtan tcctntt

17

<210> 24  
<211> 17  
<212> DNA  
<213> Artificial sequence

<220>  
<223> Artificial sequence description: DNA derived  
from the mRNA encoding the human 5-HT<sub>2c</sub>  
receptor

<220>  
<221> modified\_base  
<222> (5)  
<223> n= i

<220>  
<221> modified\_base  
<222> (9)  
<223> n= i

<220>  
<221> modified\_base  
<222> (10)  
<223> n= i

<400> 24  
caatncgtnn tcctatt

17

<210> 25  
<211> 17  
<212> DNA  
<213> Artificial sequence

<220>  
<223> Artificial sequence description: DNA derived  
from the mRNA encoding the human 5-HT<sub>2c</sub>  
receptor

<220>  
 <221> modified\_base  
 <222> (5)  
 <223> n= i

<220>  
 <221> modified\_base  
 <222> (9)  
 <223> n= i

<220>  
 <221> modified\_base  
 <222> (15)  
 <223> n= i

<400> 25  
 caatncgtna tcctntt

17

<210> 26  
 <211> 17  
 <212> DNA  
 <213> Artificial sequence.

<220>  
 <223> Artificial sequence description: DNA derived  
 from the mRNA encoding the human 5-HT<sub>2c</sub>  
 receptor

<220>  
 <221> modified\_base  
 <222> (9)  
 <223> n= i

<220>  
 <221> modified\_base  
 <222> (10)  
 <223> n= i

<220>  
 <221> modified\_base  
 <222> (15)  
 <223> n= i

<400> 26  
 caatacgtnn tcctntt

17

<210> 27  
 <211> 17  
 <212> DNA  
 <213> Artificial sequence.

<220>  
 <223> Artificial sequence description: DNA derived  
 from the mRNA encoding the human 5-HT<sub>2c</sub>  
 receptor

<220>  
 <221> modified\_base

<222> (3)  
 <223> n= i

<220>  
 <221> modified\_base  
 <222> (5)  
 <223> n= i

<220>  
 <221> modified\_base  
 <222> (10)  
 <223> n= i

<220>  
 <221> modified\_base  
 <222> (15)  
 <223> n= i

<400> 27  
 cantnctgtan tcctntt

17

<210> 28  
 <211> 17  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Artificial sequence description: DNA derived  
 from the mRNA encoding the human 5-HT<sub>2c</sub>  
 receptor

<220>  
 <221> modified\_base  
 <222> (3)  
 <223> n= i

<220>  
 <221> modified\_base  
 <222> (5)  
 <223> n= i

<220>  
 <221> modified\_base  
 <222> (9)  
 <223> n= i

<220>  
 <221> modified\_base  
 <222> (10)  
 <223> n= i

<400> 28  
 cantnctgtnn tcctatt

17

<210> 29  
 <211> 17  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Artificial sequence description: DNA derived  
 from the mRNA encoding the human 5-HT<sub>2c</sub>  
 receptor

<220>  
 <221> modified\_base  
 <222> (3)  
 <223> n= i

<220>  
 <221> modified\_base  
 <222> (5)  
 <223> n= i

<220>  
 <221> modified\_base  
 <222> (9)  
 <223> n= i

<220>  
 <221> modified\_base  
 <222> (15)  
 <223> n= i

<400> 29  
 cantncgtna tcctntt

17

<210> 30  
 <211> 17  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Artificial sequence description: DNA derived  
 from the mRNA encoding the human 5-HT<sub>2c</sub>  
 receptor

<220>  
 <221> modified\_base  
 <222> (3)  
 <223> n= i

<220>  
 <221> modified\_base  
 <222> (9)  
 <223> n= i

<220>  
 <221> modified\_base  
 <222> (10)  
 <223> n= i

<220>  
 <221> modified\_base  
 <222> (15)  
 <223> n= i

<400> 30  
 cantacgtnn tcctntt

17

<210> 31  
 <211> 17  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Artificial sequence description: DNA derived  
 from the mRNA encoding the human 5-HT<sub>2c</sub>  
 receptor

<220>  
 <221> modified\_base  
 <222> (5)  
 <223> n= i

<220>  
 <221> modified\_base  
 <222> (9)  
 <223> n= i

<220>  
 <221> modified\_base  
 <222> (10)  
 <223> n= i

<220>  
 <221> modified\_base  
 <222> (15)  
 <223> n= i

<400> 31  
 caatnctgtnn tcctntt

17

<210> 32  
 <211> 17  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Artificial sequence description: DNA derived  
 from the mRNA encoding the human 5-HT<sub>2c</sub>  
 receptor

<220>  
 <221> modified\_base  
 <222> (3)  
 <223> n= i

<220>  
 <221> modified\_base  
 <222> (5)  
 <223> n= i

<220>  
 <221> modified\_base  
 <222> (9)  
 <223> n= i

<220>  
 <221> modified\_base  
 <222> (10)  
 <223> n= i

<220>  
 <221> modified\_base  
 <222> (15)  
 <223> n= i

<400> 32  
 cantncgtnn tcctntt

17

<210> 33  
 <211> 13  
 <212> RNA  
 <213> Artificial sequence

<220>  
 <223> Artificial sequence description: RNA derived  
 from the mRNA encoding the human 5-HT<sub>2c</sub>  
 receptor

<400> 33  
 auacguaauc cua

13

<210> 34  
 <211> 17  
 <212> RNA  
 <213> Artificial sequence

<220>  
 <223> Artificial sequence description: RNA derived  
 from the mRNA encoding the human 5-HT<sub>2c</sub>  
 receptor

<400> 34  
 caauacguaa uccuauu

17

<210> 35  
 <211> 17  
 <212> RNA  
 <213> Artificial sequence

<220>  
 <223> Artificial sequence description: RNA derived  
 from the mRNA encoding the human 5-HT<sub>2c</sub>  
 receptor

<220>  
 <221> modified\_base  
 <222> (3)  
 <223> n= i

<220>  
 <221> modified\_base  
 <222> (5)

<223> n= i

<220>

<221> modified\_base

<222> (9)

<223> n= i

<220>

<221> modified\_base

<222> (10)

<223> n= i

<220>

<221> modified\_base

<222> (15)

<223> n= i

<400> 35

canuncgunn uccunuu

17

<210> 36

<211> 25

<212> DNA

<213> Artificial sequence.

<220>

<223> Artificial sequence description: Primer derived  
from the mRNA of the 5-HT<sub>2c</sub> receptor

<400> 36

tgtccctagc cattgctgat atgct

25

<210> 37

<211> 26

<212> DNA

<213> Artificial sequence.

<220>

<223> Artificial sequence description: Primer derived  
from the mRNA of the 5-HT<sub>2c</sub> receptor

<400> 37

gcaatcttca tgatggcctt agtccg

26